

### ABSTRACT

An object of this invention is to provide platelet-rich plasma having high activity easily and at low cost. The object is achieved by a method for preparing platelet-rich plasma comprising a step of adding a water-soluble polymer compound to whole blood obtained by blood collection. For example, by adding poly-L-glutamic acid to whole blood and allowing the mixture to stand still for a definite period, it is possible to obtain platelet-rich plasma having high activity that contains blood plasma components containing much fibrinogen in addition to platelets in the supernatant and blood cell components including white blood cells. This invention also includes the platelet-rich plasma and the use thereof as well as a kit for preparing platelet-rich plasma.